DIALOG(R)File 352:Derwent WPI

012080923

WPI Acc No: 1998-497834/199843

XRAM Acc No: C98-150042

High ozone resistance rubber composition for tyre sidewall - comprises blend of wax containing high carbon component and antioxidant containing N-(1-methylheptyl)-N'-phenyl-p-phenylenediamine with diene rubber

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Number of Countries: 026 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 867472	A1	19980930	EP 98302248	A	19980325	199843 B
JP 10324779	A	19981208	JP 9865489	A	19980316	199908
US 6201049	B1	20010313	US 9848182	A	19980326	200120
EP 867472	B1	20030528	EP 98302248	A	19980325	200336
DE 69814963	E	20030703	DE 614963	A	19980325	200351
			EP 98302248	A	19980325	

Priority Applications (No Type Date): JP 9773692 A 19970326

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 867472	A1	E	8	C08L-021/00	
	Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI				
JP 10324779	A		6	C08L-009/00	
US 6201049	B1			C08L-007/00	
EP 867472	B1	E		C08L-021/00	
	Designated States (Regional): DE FR GB				
DE 69814963	E			C08L-021/00	Based on patent EP 867472

Abstract (Basic): EP 867472 A

The rubber composition for a tyre sidewall comprises a blend of (i) 0.5-2.5 pts.wt. a wax containing a 45+C component and having an average 28-38C content; and (ii) 3.0-7.0 pts.wt. an antioxidant containing 30-100%wt. N-(1-methylheptyl)-N'-phenyl-p-phenylenediamine (8PPD); with (iii) 100 pts.wt. a diene rubber component.

Pref. the wax component has an average number of combinations of 34-37. Two kinds of wax are used in admixture. Antioxidant contains 30-100%wt. (30-60%wt.) 8PPD. Rubber component contains 50-80%wt. butadiene. The rubber composition is obtained by further blending 0.8-1.8 pts.wt. S and an accelerator in the amount such that wt. ratio of S/accelerator = 1.5-6.0 per 100 pts.wt. rubber component.

USE - The rubber composition is used for a tyre sidewall esp. lorry or bus tyre.

ADVANTAGE - The rubber composition has high ozone resistance and is difficult to discolour to brown and white.

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Title Terms: HIGH; OZONE; RESISTANCE; RUBBER; COMPOSITION; TYRE; SIDEWALL;
COMPRISE; BLEND; WAX; CONTAIN; HIGH; CARBON; COMPONENT; ANTIOXIDANT;
CONTAIN; N; METHYL; HEPTYL; N; PHENYL; P; PHENYLENE; DI; AMINE; DIENE;
RUBBER

Derwent Class: A12; A95; E14; Q11
International Patent Class (Main): C08L-007/00; C08L-009/00; C08L-021/00
International Patent Class (Additional): B60C-001/00; C08K-005/18;
C08L-009/06; C08L-021/00; C08L-091-08; C08L-009/00; C08L-091-06
File Segment: CPI; EngPI
Manual Codes (CPI/A-N): A04-B01E; A08-A06; A12-T01B; E10-B01A4
Chemical Fragment Codes (M3):
01 G010 G013 G100 H1 H102 H142 M1 M121 M143 M220 M222 M232 M273 M281 M320 M414 M510 M520 M532 M540 M781 M903 M904 Q130 Q624 R023 R043 9843-CGG01-K 9843-CGG01-U
Polymer Indexing (PS):
<01>
001 018; R00806 G0828 G0817 D01 D02 D12 D10 D51 D54 D56 D58 D84;

H0124-R; H0000; P0328 ; P0339

002 018; R24073 D01 D02 D03 D12 D10 D51 D53 D59 D85 P0599 H0124 B5061; H0124-R

003 018; ND01; ND04; Q9999 Q9256-R Q9212; B9999 B4648 B4568; B9999 B4273 B4240; K9745-R; N9999 N6439; N9999 N6939-R; K9416

004 018; D01 D11 D10 D19 D18 D32 D76 D50 D94 F09 F07; A999 A497 A486; A999 A771

005 018; R01725 D00 D09 S- 6A; R01520 D00 F20 Zn 2B Tr O- 6A; A999 A146 ; A999 A771

006 018; R05085 D00 D09 C- 4A; A999 A077-R; A999 A771

007 018; R00122 D01 D11 D10 D50 D93 F36 F35; A999 A340-R; A999 A771

Derwent Registry Numbers: 0122-S; 1520-S; 1669-S; 1725-S

Generic Compound Numbers: 9843-CGG01-K; 9843-CGG01-U